

CLAIMS

1. An implant material injection system, the system comprising:
a pressure driver, and a separate container for implant material, wherein said driver and
said separate container are adapted to form a sealed pressure-tight interface between each other,
said pressure driver comprising a piston and a sleeve, wherein said piston and said sleeve
are adapted to draw implant material into at least a portion of a chamber defined by said sleeve
upon retracting said piston and to expel implant material from said pressure drive at a pressure
level upon advancing said piston.
2. The system of claim 1, wherein said pressure level reaches at least 10 psi.
3. The system of claim 1, wherein said pressure level does not exceed 120 psi.
4. The system of claim 1, further comprising a means for remote actuation.
5. The system of claim 1, further comprising a remote actuator connected to said
pressure driver.
6. The system of claim 5, wherein said remote actuator comprises first and second
grip portions and is adapted to drive said piston by reciprocal movement of said grip portions
relative to each other.
7. The system of claim 6, wherein said movement of said actuator corresponds 1 to
1 with movement of said piston.

8. The system of claim 7, wherein a cable set within a housing connects said actuator and said pressure driver.
9. The system of claim 8, wherein said cable is about 36 inches in length or more
10. The system of claim 9, wherein said cable is about 48 inches long.
11. An implant material injection system, the system comprising:
a pressure driver, a container for implant material, and a remote actuator connected to
said pressure driver,
said pressure driver comprising a piston and a sleeve, wherein said piston and said sleeve
are adapted to draw implant material into at least a portion of a chamber defined by said sleeve
upon retracting said piston and to expel implant material from said pressure drive at a pressure
level upon advancing said piston,
said remote actuator comprising first and second grip portions and being adapted to drive
said piston by reciprocal movement of said grip portions relative to each other.
12. The system of claim 11, wherein said movement of said actuator corresponds 1
to 1 with movement of said piston.
13. The system of claim 12, wherein a cable set within a housing connects said
actuator and said pressure driver.

14. The system of claim 11, wherein a remote connection between said remote actuator and said pressure drivers is about 36 inches or more long.

15. The system of claim 11, wherein said pressure level reaches at least about 10 psi.

16. The system of claim 11, wherein said pressure level does not exceed about 120 psi.

17. An implant material injection system, the system comprising:

a pressure driver, a container for implant material, and a means for remote actuation of said pressure driver,

said pressure driver comprising a piston and a sleeve, wherein said piston and said sleeve are adapted to draw implant material into at least a portion of a chamber defined by said sleeve upon retracting said piston and to expel implant material from said pressure driver at a pressure level upon advancing said piston.

18. A method of delivering flowable implant material, the method comprising:

providing an implant material injection system comprising a pressure driver and container for implant material;

connecting said pressure driver to a cannula emplaced at a location for implant material delivery;

loading implant material into said pressure driver;

driving material from said pressure driver into said implant material location;

again loading implant material into said pressure driver; and

again driving material from said pressure driver into said implant material location.

19. The method of claim 1, wherein said implant material injection system further comprises a remote actuator connected to said pressure driver, and the method further comprises:

withdrawing a first portion of said actuator relative to a second portion of said actuator to effect said loading; and
advancing said first portion toward said second portion to effect said driving.

20. The method of claim 19, wherein aid withdrawing and said advancing is performed at about 36 or greater from said location for implant material.

21. The method of claim 19, wherein a cable within a housing is provided to connect said remote actuator to said pressure driver.

22. The method of claim 19, wherein a pressure level for driving said implant material reaches at least about 10 psi.

23. The method of claim 19, wherein a pressure level for driving said implant material does not exceed about 120 psi.